
**Appendix 1: SUMMARY DATA FOR WISCONSIN
HOSPITALS, 2001**

COMPARISONS BY HOSPITAL TYPE, 2001

	<u>GMS</u>	<u>Psych</u>	<u>AODA</u>	<u>Rehab</u>	<u>State</u>
Summary Data					
No. of Hospitals	127	11	1	2	2
No. of Discharges	627,882	16,862	118	781	2,349
Patient Days	2,685,307	144,451	1,961	17,394	123,001
Average Stay (days)	4.3	8.6	16.6	22.3	52.4
Ave. Charge per Stay	\$11,655	\$6,455	\$10,553	\$25,571	\$28,405
Length of Stay (percent of patients)*					
0-7 days	87.7 %	73.6 %	7.6 %	38.2 %	39.1 %
8-14 days	8.7	15.4	11.0	22.9	13.5
15-21 days	2.0	4.5	70.3	10.2	6.3
22-28 days	0.7	2.3	11.0	6.8	3.9
29-100 days	0.8	3.6	0.0	19.5	22.8
Over 100 days	0.0	0.7	0.0	2.4	14.4
	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %
Expected Primary Payment Sources (percent of patients)*					
Medicare	38.0 %	17.3 %	0.0 %	61.8 %	14.0 %
Medical Assistance	11.0	13.2	22.9	12.0	21.5
Other Government	1.6	10.7	0.0	0.6	0.0
Private Insurance	46.3	39.3	76.3	25.4	31.9
Self-Pay	3.1	18.9	0.8	0.1	32.5
Unknown	0.0	0.6	0.0	0.0	0.2
	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %

* May not total to 100% due to rounding.

Source: Inpatient Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

**GROUP COMPARISONS
GENERAL MEDICAL-SURGICAL HOSPITALS, 2001**

	<u>Number of Discharges</u>	<u>Average Stay (Days)</u>	<u>Average Charge</u>
<i>Analysis Areas*</i>			
1	114,291	4.6	\$11,105
2A	94,315	4.3	10,035
2B	168,225	5.5	17,612
3	54,740	5.1	8,356
4	67,123	4.0	8,404
5A	45,192	3.6	7,317
5B	31,646	3.7	9,954
6	62,431	4.2	9,853
7	10,029	3.3	5,518

Inpatient Volume Groups**

1	8,377	3.2	\$5,950
2	19,714	4.0	7,876
3	34,671	3.2	6,248
4	71,244	3.4	7,534
5	150,341	4.0	9,567
6	343,535	4.7	14,326

* See Appendix 4 for a map of the analysis areas.

** Comparisons were not calculated for volume group 7 (specialty hospitals).
See Appendix 5 for a listing of inpatient volume groups by hospital.

Source: Inpatient Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Appendix 2: COMPARABLE DATA FOR 2000

The following tables contain 2000 comparison data from the **2000 Health Care Data Report**.

Table 1. Comparative summary of utilization and charges for hospitalizations in Wisconsin, 1999 and 2000

	<u>2000</u>	<u>1999</u>	<u>% Diff</u>
Number of Hospitalizations	635,174	621,204	2.2
Total Patient Days	2,930,329	2,904,135	0.9
Average Stay (days)	4.6	4.7	-1.3
Hospitalizations per 1,000 Population	118.4	117.3	0.9
Patient Days per 1,000 Population	546.3	548.4	-0.4
Total Charges	\$6,566,973,231	\$5,889,519,788	11.5
Average Charge per Hospitalization	\$10,344	\$9,486	9.1

*Note: Except for the state-operated mental health institutes, hospitalizations with lengths of stay greater than 100 days were not included when computing the charge data above. These hospitalizations **were** included to compute the number of hospitalizations, patient days, average length of stay, and population-based rates. All hospitalizations of more than 999 days were excluded entirely from the data. During 2000 there were 33 such hospitalizations.*

Source: Inpatient Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 2. Summary data for Wisconsin hospitals, by type, 2000

<u>Type</u>	<u>Number of Hospitals</u>	<u>Number of Hospitalizations</u>	<u>Patient Days</u>	<u>Average Stay (days)</u>	<u>Average Charge per Day</u>	<u>Average Charge per Stay</u>
GMS	125	616,814	2,656,134	4.3	\$2,437	\$10,373
PSYCH	12	15,409	142,220	9.2	835	5,972
AODA	1	139	2,212	15.9	582	9,264
REHAB	2	793	13,632	17.2	1,331	21,487
STATE	2	2,019	116,131	57.5	527	30,320
TOTAL	142	635,174	2,930,329	4.6	2,292	10,344

*Note: Except for the state-operated mental health institutes, hospitalizations with lengths of stay greater than 100 days were not included when computing the charge data above. These hospitalizations **were** included to compute the number of hospitalizations, patient days, and average length of stay.*

Source: Inpatient Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 3. Percentage change in utilization and charges in Wisconsin hospitals, by type, 1999 to 2000

<u>Type</u>	<u>Number of Hospitalizations</u>	<u>Patient Days</u>	<u>Average Charge Per Stay</u>
GMS	2.3%	1.3%	9.4%
PSYCH	-0.6	-3.3	-1.3
AODA	8.6	2.5	-0.2
REHAB	0.9	6.8	3.7
STATE	8.6	-3.2	-8.4

Source: Inpatient Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 4. Deliveries in Wisconsin hospitals, 2000

<u>DRG</u>	<u>Description</u>	<u>Number of Hospitalizations</u>	<u>Average Stay (days)</u>	<u>Average Charge</u>	<u>Median Charge</u>
370	C-Section with Complications	2,833	4.8	\$9,505	\$7,524
371	C-Section without Complications	8,746	3.7	7,044	6,434
372	Vaginal Delivery with Complicating Diagnoses	6,321	2.7	4,846	3,849
373	Normal Delivery	46,613	2.1	3,414	3,043
374	Vaginal Delivery with Sterilization &/or D&C	1,882	2.3	6,604	5,867
375	Vaginal Delivery with Operating Room Procedure	45	2.8	6,426	4,760
Total Deliveries		66,440			

Source: Inpatient Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

APPENDIX 2

Table 5. Neonatal hospitalizations in Wisconsin, 2000

<u>DRG</u>	<u>Description</u>	<u>Number of Hospitalizations</u>	<u>Average Stay (days)</u>	<u>Average Charge</u>	<u>Median Charge</u>
385	Neonates, Died or Transferred	1,331	4.1	\$10,258	\$1,731
386	Extreme Immaturity or Respiratory Distress	1,131	34.6	66,638	45,084
387	Prematurity with Major Problems	1,189	14.2	21,088	14,055
388	Prematurity without Major Problems	2,336	4.7	4,851	1,767
389	Full Term Neonate with Major Problems	3,511	4.2	6,429	2,734
390	Neonate with Other Significant Problems	8,639	2.4	1,825	1,325
391	Normal Newborn	51,288	2.0	1,158	1,077
Total Neonatal Hospitalizations		69,425			

Note: Includes newborns in the hospital of birth, newborns transferred to other hospitals, and low birthweight infants readmitted when less than 28 days old after their initial hospital stay.

Source: Inpatient Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 6. Cardiac hospitalizations in Wisconsin, 2000

<u>DRG</u>	<u>Description</u>	<u>Number of Hospitalizations</u>	<u>Average Stay (days)</u>	<u>Average Charge</u>	<u>Median Charge</u>
103	Heart Transplant	59	49.2	\$201,451	155,196
104	Cardiac Valve Procedures w/ Catheterization	1,421	10.0	76,582	65,506
105	Cardiac Valve Procedures w/o Catheterization	1,392	8.0	56,176	45,813
106	Bypass with PTCA†	204	9.3	66,700	61,196
107	Bypass with Catheterization	3,819	8.8	48,450	42,140
108	Other Cardiothoracic Procedures	597	9.9	56,638	41,101
109	Bypass without Catheterization	2,317	6.4	35,912	30,083
115	Permanent Pacemaker w/ Heart Attack	271	6.8	33,887	29,927
116	Pacemaker or PTCA† w/ Stent w/o Heart Attack	11,757	2.8	22,224	20,010
117	Repair of Pacemaker Device	75	3.7	11,464	8,637
118	Replacement of Pacemaker	116	2.4	15,068	13,348
127	Heart Failure and Shock	15,173	4.5	8,150	6,326
140	Angina Pectoris	2,531	1.9	4,580	3,984
143	Chest Pain	10,568	1.6	4,684	4,188
All Other Cardiac Hospitalizations		48,679			
Total Cardiac Hospitalizations		98,979			

†PTCA Percutaneous Transluminal Coronary Angioplasty

Source: Inpatient Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 7. Orthopedic hospitalizations in Wisconsin, 2000

DRG	Description	Number of Hospitalizations	Average Stay (days)	Average Charge	Median Charge
209	Major Joint and Limb Reattachment	15,211	4.6	\$19,372	\$17,938
210	Hip and Femur Procs w/ Complications	3,270	6.4	17,345	14,444
211	Hip and Femur Procs w/o Complications	1,140	4.6	13,161	12,011
212	Hip and Femur Procedures - Children	474	3.6	12,098	10,370
243	Medical Back Problems	4,867	3.8	5,824	4,463
497	Spinal Fusion w/CC	1,257	5.7	29,296	24,885
498	Spinal Fusion w/o/CC	3,237	2.8	19,335	16,111
499	Back and Neck Procedures w/CC	1,065	4.1	12,897	10,157
500	Back and Neck Procedures w/o/CC	3,641	2.0	8,445	7,366
	All Other Orthopedic Hospitalizations	22,618			
	Total Orthopedic Hospitalizations	56,780			

Note: Data exclude hospitalizations at rehabilitation hospitals.

Source: Inpatient Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 8. Psychiatric hospitalizations in Wisconsin GMS, psychiatric, and AODA hospitals, 2000

DRG	Description	Number of Hospitalizations	Average Stay (days)	Average Charge	Median Charge
424	Mental Illness with Surgical Operation	178	9.9	\$14,234	\$11,058
425	Adjustment Problems	1,363	4.1	5,222	3,850
426	Depression	4,609	5.0	3,873	2,595
427	Neuroses except Depression	2,872	5.3	3,060	1,769
428	Personality Disorders	655	10.3	6,824	3,847
429	Mental Retardation/Organic Problems	2,019	9.0	8,417	6,286
430	Psychoses	19,842	9.1	7,264	4,904
431	Childhood Mental Disorders	1,208	12.3	7,791	4,470
432	Other Mental Problems	211	11.0	5,055	2,768
	Total Psychiatric Hospitalizations	32,957			

Note: Figures exclude hospitalizations at the state-operated mental health institutes.

Source: Inpatient Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 9. AODA hospitalizations in Wisconsin GMS, psychiatric, and AODA hospitals, 2000

DRG	Description	Number of Hospitalizations	Average Stay (days)	Average Charge	Median Charge
433	AODA, Left Against Medical Advice	1,062	2.6	\$2,684	\$1,856
434	AODA, Detox with Complications	3,064	4.1	5,758	3,713
435	AODA, Detox without Complications	9,347	2.8	2,592	1,839
436	AODA, Rehabilitation Therapy	1,181	11.7	5,109	4,304
437	AODA, Comb. Rehab/Detox Therapy	1,535	7.1	6,417	5,294
Total AODA Hospitalizations		16,189			

Note: Figures exclude hospitalizations at the state-operated mental health institutes.

Source: Inpatient Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 10. Most common hospitalizations at Wisconsin GMS, psychiatric, and AODA facilities, 2000

DRG	Description	Number of Hospitalizations	Average Stay (days)	Average Charge	Median Charge
391	Normal Newborn	51,288	2.0	\$1,158	\$1,077
373	Normal Delivery	46,613	2.1	3,414	3,043
430	Psychoses	19,842	9.1	7,264	4,904
209	Major Joint and Limb Reattachment	15,211	4.6	19,372	17,938
127	Heart Failure and Shock	15,173	4.5	8,150	6,326
089	Adult Simple Pneumonia and Pleurisy w/CC	13,017	5.2	8,896	7,017
116	Pacemaker or PTCA† with Stent	11,757	2.8	22,224	20,010
143	Chest Pain	10,568	1.6	4,684	4,188
462	Rehabilitation	9,548	12.9	16,734	12,232
435	AODA, Detox without Complications	9,347	2.8	2,592	1,839

†PTCA: Percutaneous Transluminal Coronary Angioplasty

Source: Inpatient Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 11. Most expensive hospitalizations at Wisconsin GMS, psychiatric, and AODA facilities, 2000

DRG	Description	Number of Hospitalizations	Average Stay (days)	Average Charge	Median Charge
504	Extensive Third Degree Burn with Skin Graft	23	44.1	\$230,165	\$179,911
103	Heart Transplant	59	49.2	201,451	155,196
495	Lung Transplant	26	21.2	166,239	133,600
483	Tracheostomy	1,277	40.6	160,736	140,549
480	Liver Transplant	97	22.0	139,231	107,354
481	Bone Marrow Transplant	208	30.8	129,441	97,744
104	Cardiac Valve Procedures w/Cardiac Cath.	1,421	10.0	76,582	65,506
506	Full Thickness Burn w/Graft or Inhalation Injury	60	20.4	69,308	46,926
106	Coronary Bypass with PTCA†	204	9.3	66,700	61,196
386	Extreme Immaturity or Respiratory Distress	1,131	34.6	66,638	45,084

†PTCA: Percutaneous Transluminal Coronary Angioplasty

Source: Inpatient Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 12. Hospitalizations with the highest total charge-generating DRGs at Wisconsin GMS, psychiatric, and AODA facilities, 2000

DRG	Description	Number of Hospitalizations	Average Stay (days)	Average Charge	Total Charges
209	Major Joint and Limb Reattachment	15,211	4.6	\$19,372	\$294,661,274
116	Pacemaker or PTCA† with Stent	11,757	2.8	22,224	261,292,472
483	Tracheostomy	1,277	40.6	160,736	196,741,360
107	Coronary Bypass with Cardiac Cath.	3,819	8.8	48,450	184,982,265
462	Rehabilitation	9,548	12.9	16,734	159,722,731
373	Normal Delivery	46,613	2.1	3,414	159,159,761
148	Major Bowel Procedures w/CC	5,191	10.8	28,484	147,774,504
430	Psychoses	19,842	9.1	7,264	143,551,747
127	Heart Failure and Shock	15,173	4.5	8,150	123,661,006
089	Adult Simple Pneumonia and Pleurisy w/CC	13,017	5.2	8,896	115,793,942

†PTCA: Percutaneous Transluminal Coronary Angioplasty

Source: Inpatient Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 13. Wisconsin injuries (to persons treated as hospital inpatients or in hospital-based ambulatory surgery settings and FASCs), Statewide, 2000**Statewide**

<u>Injury Category</u>	<u>Number Of Cases</u>	<u>Rate per 100,000 Population</u>	<u>Total Charges</u>
Cut/Pierce Total	3,240	60.4	\$15,845,798
Accidental	2,325	43.3	9,481,963
Self-inflicted	705	13.1	4,135,738
Assault	191	3.6	2,109,199
Undetermined	19	0.4	118,898
Drown/Submersion	56	1.0	519,582
Falls	27,171	506.6	281,122,592
Fire/Flames	332	6.2	11,664,369
Firearms Total	500	9.3	10,951,006
Accidental	158	2.9	1,954,398
Self-inflicted	50	0.9	1,942,764
Assault	250	4.7	6,071,180
Undetermined	42	0.8	982,664
Hot Objects/Scalds	470	8.8	6,935,217
Machinery	1,176	21.9	11,051,964
Motor Vehicle Traffic	6,286	117.2	121,206,796
Other Pedal Cycle	751	14.0	4,959,943
Other Motor Vehicle Nontraffic	1,146	21.4	13,505,631
Other Transport	365	6.8	4,412,290
Natural/Environmental	1,094	20.4	7,436,500
Overexertion	6,678	124.5	36,012,504
Poisoning Total	5,543	103.3	34,196,900
Accidental	1,745	32.5	13,417,965
Self-inflicted	3,497	65.2	18,710,850
Assault	2	0.0	14,688
Undetermined	299	5.6	2,053,396
Striking/Struck by Total	4,582	85.4	30,859,814
Accidental	3,746	69.8	22,809,790
Assault	836	15.6	8,050,024
Suffocation	435	8.1	9,287,561
Other	19,217	358.3	155,094,155
Total Self-inflicted	4,790	89.3	31,342,709
Total Assaults	1,834	34.2	23,010,060
Total Injuries	79,042	1,473.7	\$755,062,621

Source: Inpatient and Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 14. Wisconsin injuries (to persons treated as hospital inpatients or in hospital-based ambulatory surgery settings and FASCs), Analysis Area 1, 2000**Analysis Area 1—Southern**

<u>Injury Category</u>	<u>Number Of Cases</u>	<u>Rate per 100,000 Population</u>	<u>Total Charges</u>
Cut/Pierce Total	513	52.0	\$2,497,659
Accidental	404	41.0	1,600,764
Self-inflicted	76	7.7	632,518
Assault	29	2.9	253,036
Undetermined	4	0.4	11,341
Drown/Submersion	16	1.6	195,899
Falls	4,887	495.4	48,429,911
Fire/Flames	82	8.3	3,697,442
Firearms Total	49	5.0	1,449,422
Accidental	20	2.0	254,016
Self-inflicted	16	1.6	654,540
Assault	11	1.1	201,012
Undetermined	2	0.2	339,855
Hot Objects/Scalds	96	9.7	1,120,474
Machinery	199	20.2	1,990,393
Motor Vehicle Traffic	1,201	121.7	25,786,745
Other Pedal Cycle	158	16.0	971,008
Other Motor Vehicle Nontraffic	206	20.9	2,429,877
Other Transport	82	8.3	1,008,606
Natural/Environmental	215	21.8	1,228,370
Overexertion	1,024	103.8	5,095,505
Poisoning Total	1,079	109.4	6,831,005
Accidental	322	32.6	2,656,139
Self-inflicted	690	69.9	3,793,067
Undetermined	67	6.8	381,799
Striking/Struck by Total	842	85.3	4,828,858
Accidental	733	74.3	4,143,390
Assault	109	11.0	685,468
Suffocation	129	13.1	4,319,698
Other	3,266	331.1	28,709,113
Total Self-inflicted	872	88.4	6,622,220
Total Assaults	225	22.8	1,812,011
Total Injuries	14,044	1,423.6	\$140,589,985

Source: Inpatient and Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

APPENDIX 2

Table 15. Wisconsin injuries (to persons treated as hospital inpatients or in hospital-based ambulatory surgery settings and FASCs), Analysis Area 2A, 2000**Analysis Area 2A—Southeastern**

<u>Injury Category</u>	<u>Number Of Cases</u>	<u>Rate per 100,000 Population</u>	<u>Total Charges</u>
Cut/Pierce Total	405	40.8	\$1,774,041
Accidental	287	28.9	1,222,351
Self-inflicted	100	10.1	362,448
Assault	17	1.7	185,214
Undetermined	1	0.1	4,028
Falls	4,019	404.8	45,226,452
Fire/Flames	22	2.2	233,521
Firearms Total	11	1.1	165,055
Accidental	5	0.5	46,512
Self-inflicted	2	0.2	16,073
Assault	3	0.3	76,313
Undetermined	1	0.1	26,158
Hot Objects/Scalds	36	3.6	299,141
Machinery	114	11.5	844,271
Motor Vehicle Traffic	665	67.0	8,490,233
Other Pedal Cycle	96	9.7	768,019
Other Motor Vehicle Nontraffic	97	9.8	1,155,871
Other Transport	40	4.0	393,291
Natural/Environmental	133	13.4	980,299
Overexertion	909	91.6	4,985,264
Poisoning Total	798	80.4	4,621,487
Accidental	187	18.8	1,241,922
Self-inflicted	547	55.1	2,806,271
Assault	1	0.1	4,204
Undetermined	63	6.3	569,089
Striking/Struck by Total	486	49.0	2,832,571
Accidental	432	43.5	2,539,860
Assault	54	5.4	292,712
Suffocation	54	5.4	1,189,161
Other	2,763	278.3	17,970,175
Total Self-inflicted	673	67.8	3,385,207
Total Assaults	117	11.8	843,212
Total Injuries	10,648	1,072.6	\$91,928,852

Source: Inpatient and Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 16. Wisconsin injuries (to persons treated as hospital inpatients or in hospital-based ambulatory surgery settings and FASCs), Analysis Area 2B, 2000**Analysis Area 2B—Milwaukee County**

<u>Injury Category</u>	<u>Number Of Cases</u>	<u>Rate per 100,000 Population</u>	<u>Total Charges</u>
Cut/Pierce Total	819	87.1	\$5,285,749
Accidental	612	65.1	3,107,043
Self-inflicted	89	9.5	758,604
Assault	114	12.1	1,373,779
Undetermined	4	0.4	46,323
Drown/Submersion	18	1.9	179,560
Falls	5,895	627.0	85,778,616
Fire/Flames	114	12.1	6,905,409
Firearms Total	346	36.8	7,762,824
Accidental	75	8.0	1,182,173
Self-inflicted	12	1.3	519,794
Assault	228	24.3	5,589,468
Undetermined	31	3.3	471,389
Hot Objects/Scalds	206	21.9	4,039,182
Machinery	268	28.5	3,669,522
Motor Vehicle Traffic	1,634	173.8	45,519,947
Other Pedal Cycle	166	17.7	1,274,943
Other Motor Vehicle Nontraffic	113	12.0	2,592,178
Other Transport	45	4.8	881,970
Natural/Environmental	210	22.3	2,118,784
Overexertion	1,525	162.2	10,801,306
Poisoning Total	1,302	138.5	11,493,094
Accidental	646	68.7	6,453,584
Self-inflicted	598	63.6	4,509,859
Undetermined	58	6.2	529,651
Striking/Struck by Total	1,232	131.0	12,520,781
Accidental	866	92.1	8,158,850
Assault	366	38.9	4,361,932
Suffocation	99	10.5	2,263,420
Other	5,122	544.8	59,898,083
Total Self-inflicted	766	81.5	7,448,467
Total Assaults	1,035	110.1	16,553,120
Total Injuries	19,114	2,033.0	\$262,985,366

Source: Inpatient and Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

APPENDIX 2

Table 17. Wisconsin injuries (to persons treated as hospital inpatients or in hospital-based ambulatory surgery settings and FASCs), Analysis Area 3, 2000**Analysis Area 3—Lake Winnebago**

<u>Injury Category</u>	<u>Number Of Cases</u>	<u>Rate per 100,000 Population</u>	<u>Total Charges</u>
Cut/Pierce Total	300	53.1	\$1,588,209
Accidental	188	33.2	576,679
Self-inflicted	102	18.0	898,591
Assault	7	1.2	96,328
Undetermined	3	0.5	16,610
Drown/Submersion	1	0.2	8,516
Falls	2,609	461.4	20,462,667
Fire/Flames	18	3.2	100,051
Firearms Total	17	3.0	257,049
Accidental	11	1.9	153,827
Self-inflicted	5	0.9	48,925
Undetermined	1	0.2	54,296
Hot Objects/Scalds	13	2.3	737,699
Machinery	117	20.7	857,064
Motor Vehicle Traffic	498	88.1	8,751,835
Other Pedal Cycle	75	13.3	451,025
Other Motor Vehicle Nontraffic	114	20.2	1,487,355
Other Transport	32	5.7	227,089
Natural/Environmental	73	12.9	663,204
Overexertion	711	125.7	3,267,426
Poisoning Total	507	89.7	2,150,841
Accidental	121	21.4	680,357
Self-inflicted	379	67.0	1,448,555
Undetermined	7	1.2	21,929
Striking/Struck by Total	388	68.6	3,420,838
Accidental	336	59.4	1,826,217
Assault	52	9.2	1,594,620
Suffocation	26	4.6	232,354
Other	2,088	369.2	13,757,045
Total Self-inflicted	553	97.8	4,141,291
Total Assaults	61	10.8	1,590,299
Total Injuries	7,587	1,341.7	\$58,420,267

Source: Inpatient and Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 18. Wisconsin injuries (to persons treated as hospital inpatients or in hospital-based ambulatory surgery settings and FASCs), Analysis Area 4, 2000**Analysis Area 4—Northeastern**

<u>Injury Category</u>	<u>Number Of Cases</u>	<u>Rate per 100,000 Population</u>	<u>Total Charges</u>
Cut/Pierce Total	403	67.8	\$1,613,233
Accidental	280	47.1	952,227
Self-inflicted	115	19.3	596,288
Assault	8	1.3	64,718
Drown/Submersion	3	0.5	26,653
Falls	3,132	526.6	24,959,236
Fire/Flames	21	3.5	213,793
Firearms Total	27	4.5	358,518
Accidental	20	3.4	142,751
Self-inflicted	5	0.8	173,105
Assault	2	0.3	42,662
Hot Objects/Scalds	26	4.4	128,655
Machinery	175	29.4	954,444
Motor Vehicle Traffic	691	116.2	8,475,218
Other Pedal Cycle	96	16.1	485,630
Other Motor Vehicle Nontraffic	150	25.2	1,245,095
Other Transport	37	6.2	324,141
Natural/Environmental	132	22.2	628,802
Overexertion	869	146.1	3,964,467
Poisoning Total	528	88.8	2,514,491
Accidental	160	26.9	784,749
Self-inflicted	348	58.5	1,628,865
Assault	1	0.2	10,484
Undetermined	19	3.2	90,392
Striking/Struck by Total	525	88.3	2,280,246
Accidental	436	73.3	1,860,687
Assault	89	15.0	419,559
Suffocation	50	8.4	487,441
Other	2,001	336.5	11,935,934
Total Self-inflicted	696	117.0	3,494,610
Total Assaults	129	21.7	856,587
Total Injuries	8,866	1,490.8	\$60,595,996

Source: Inpatient and Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

APPENDIX 2

Table 19. Wisconsin injuries (to persons treated as hospital inpatients or in hospital-based ambulatory surgery settings and FASCs), Analysis Area 5A, 2000**Analysis Area 5A—West Central**

<u>Injury Category</u>	<u>Number Of Cases</u>	<u>Rate per 100,000 Population</u>	<u>Total Charges</u>
Cut/Pierce Total	264	61.3	\$840,672
Accidental	194	45.1	650,463
Self-inflicted	66	15.3	166,802
Assault	4	0.9	23,408
Drown/Submersion	4	0.9	28,013
Falls	2,147	498.7	16,132,688
Fire/Flames	20	4.6	90,542
Firearms Total	20	4.6	460,239
Accidental	12	2.8	76,317
Self-inflicted	2	0.5	239,089
Assault	3	0.7	99,954
Undetermined	3	0.7	44,878
Hot Objects/Scalds	22	5.1	141,327
Machinery	93	21.6	473,884
Motor Vehicle Traffic	430	99.9	5,587,225
Other Pedal Cycle	47	10.9	196,280
Other Motor Vehicle Nontraffic	140	32.5	951,500
Other Transport	42	9.8	590,395
Natural/Environmental	106	24.6	507,398
Overexertion	407	94.5	2,003,962
Poisoning Total	336	78.0	1,369,646
Accidental	86	20.0	410,083
Self-inflicted	222	51.6	851,364
Undetermined	28	6.5	108,200
Striking/Struck by Total	398	92.4	1,456,083
Accidental	335	77.8	1,271,654
Assault	63	14.6	184,429
Suffocation	17	3.9	165,966
Other	1,529	355.1	8,008,392
Total Self-inflicted	320	74.3	1,367,721
Total Assaults	88	20.4	380,809
Total Injuries	6,022	1,398.7	\$39,004,213

Source: Inpatient and Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 20. Wisconsin injuries (to persons treated as hospital inpatients or in hospital-based ambulatory surgery settings and FASCs), Analysis Area 5B, 2000**Analysis Area 5B—Southwestern**

<u>Injury Category</u>	<u>Number Of Cases</u>	<u>Rate per 100,000 Population</u>	<u>Total Charges</u>
Cut/Pierce Total	194	76.6	\$993,408
Accidental	105	41.5	529,063
Self-inflicted	79	31.2	357,510
Assault	6	2.4	77,994
Undetermined	4	1.6	28,841
Drown/Submersion	7	2.8	52,338
Falls	1,339	528.8	13,370,159
Fire/Flames	12	4.7	39,770
Firearms Total	10	3.9	205,709
Accidental	6	2.4	68,602
Self-inflicted	3	1.2	120,253
Undetermined	1	0.4	16,855
Hot Objects/Scalds	10	3.9	110,011
Machinery	102	40.3	1,049,970
Motor Vehicle Traffic	426	168.2	7,094,518
Other Pedal Cycle	49	19.3	447,857
Other Motor Vehicle Nontraffic	50	19.7	664,657
Other Transport	36	14.2	342,270
Natural/Environmental	78	30.8	456,951
Overexertion	298	117.7	1,765,390
Poisoning Total	445	175.7	2,622,537
Accidental	64	25.3	443,680
Self-inflicted	368	145.3	2,129,447
Undetermined	13	5.1	49,410
Striking/Struck by Total	212	83.7	1,304,997
Accidental	175	69.1	1,121,274
Assault	37	14.6	183,723
Suffocation	27	10.7	306,608
Other	687	271.3	6,502,149
Total Self-inflicted	462	182.4	2,704,041
Total Assaults	61	24.1	327,994
Total Injuries	3,982	1,572.5	\$37,329,298

Source: Inpatient and Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

APPENDIX 2

Table 21. Wisconsin injuries (to persons treated as hospital inpatients or in hospital-based ambulatory surgery settings and FASCs), Analysis Area 6, 2000**Analysis Area 6—North Central**

<u>Injury Category</u>	<u>Number Of Cases</u>	<u>Rate per 100,000 Population</u>	<u>Total Charges</u>
Cut/Pierce Total	276	60.7	\$1,072,647
Accidental	208	45.8	766,170
Self-inflicted	61	13.4	264,020
Assault	5	1.1	31,868
Undetermined	2	0.4	10,589
Drown/Submersion	7	1.5	28,605
Falls	2,613	574.9	23,406,122
Fire/Flames	41	9.0	371,248
Firearms Total	19	4.2	283,322
Accidental	9	2.0	30,201
Self-inflicted	5	1.1	170,985
Assault	3	0.7	61,771
Undetermined	2	0.4	20,365
Hot Objects/Scalds	54	11.9	303,455
Machinery	101	22.2	1,199,880
Motor Vehicle Traffic	657	144.6	11,118,910
Other Pedal Cycle	56	12.3	341,706
Other Motor Vehicle Nontraffic	245	53.9	2,809,578
Other Transport	43	9.5	603,711
Natural/Environmental	126	27.7	797,793
Overexertion	847	186.4	3,728,815
Poisoning Total	434	95.5	2,091,675
Accidental	120	26.4	621,138
Self-inflicted	279	61.4	1,204,808
Undetermined	35	7.7	265,730
Striking/Struck by Total	428	94.2	1,983,930
Accidental	378	83.2	1,704,231
Assault	50	11.0	279,699
Suffocation	27	5.9	298,205
Other	1,611	354.4	7,665,114
Total Self-inflicted	360	79.2	1,723,387
Total Assaults	98	21.6	586,265
Total Injuries	7,585	1,668.8	\$58,104,715

Source: Inpatient and Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 22. Wisconsin injuries (to persons treated as hospital inpatients or in hospital-based ambulatory surgery settings and FASCs), Analysis Area 7, 2000**Analysis Area 7—Western Lake Superior**

<u>Injury Category</u>	<u>Number Of Cases</u>	<u>Rate per 100,000 Population</u>	<u>Total Charges</u>
Cut/Pierce Total	66	45.3	\$180,180
Accidental	47	32.2	77,204
Self-inflicted	17	11.7	98,957
Assault	1	0.7	2,854
Undetermined	1	0.7	1,166
Falls	530	363.6	3,356,740
Fire/Flames	2	1.4	12,594
Firearms Total	1	0.7	8,869
Undetermined	1	0.7	8,869
Hot Objects/Scalds	7	4.8	55,273
Machinery	7	4.8	12,536
Motor Vehicle Traffic	84	57.6	382,165
Other Pedal Cycle	8	5.5	23,475
Other Motor Vehicle Nontraffic	31	21.3	169,519
Other Transport	8	5.5	40,818
Natural/Environmental	21	14.4	54,899
Overexertion	88	60.4	400,369
Poisoning Total	114	78.2	502,124
Accidental	39	26.8	126,313
Self-inflicted	66	45.3	338,614
Undetermined	9	6.2	37,197
Striking/Struck by Total	71	48.7	231,509
Accidental	55	37.7	183,627
Assault	16	11.0	47,882
Suffocation	6	4.1	24,708
Other	150	102.9	648,151
Total Self-inflicted	88	60.4	455,765
Total Assaults	20	13.7	59,763
Total Injuries	1,194	819.2	\$6,103,929

Source: Inpatient and Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 23. Self-inflicted injuries (to persons treated as hospital inpatients or in hospital-based ambulatory surgery settings and FASCs), 2000**Statewide**

<u>Injury Category</u>	<u>Male</u>	<u>Female</u>	<u>Total Cases</u>
Poisoning by solid or liquid substances	1,080	2,380	3,460
Poisoning by gases in domestic use	2	0	2
Poisoning by other gases (e.g., car exhaust)	23	12	35
Hanging, strangling, and suffocation	30	16	46
Submersion (drowning)	1	0	1
Firearms and explosives	46	5	51
Cutting/piercing	294	411	705
Jumping from a high place	18	7	25
Other self-inflicted injuries	<u>207</u>	<u>258</u>	<u>465</u>
Total self-inflicted injuries	1,701	3,089	4,790

Source: Inpatient and Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 24. Assaultive injuries (to persons treated as hospital inpatients or in hospital-based ambulatory surgery settings and FASCs), 2000**Statewide**

<u>Injury Category</u>	<u>Male</u>	<u>Female</u>	<u>Total Cases</u>
Unarmed fight or brawl	525	137	662
Rape	1	3	4
Poisoning	0	2	2
Hanging and strangling	0	1	1
Firearms and explosives	224	20	244
Cutting/piercing	152	39	191
Child battering and other maltreatment	48	80	128
Striking by blunt or thrown object	126	25	151
Bite of human being	61	40	101
Other assaultive injuries	<u>274</u>	<u>76</u>	<u>350</u>
Total assaultive injuries	1,411	423	1,834

Source: Inpatient and Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 25. Summary of selected ambulatory surgical procedure data, Wisconsin GMS hospitals and FASCs, 2000

ICD-9-CM		Number of Cases	Avg. Charge	Percentile Distribution of Charges		
Code	Procedure			25th	50th	75th
03.91	Injection of Spinal Canal for Analgesia	15,844	\$649	\$376	\$586	\$818
03.92	Injection of other Agent into Spinal Canal	20,732	610	408	551	750
04.43	Carpal Tunnel Release	10,519	1,892	1,275	1,741	2,353
13.41	Phacoemulsification and Aspiration of Cataract	27,118	3,310	2,511	3,192	4,063
13.59	Other Extracapsular Extraction of Lens	11,645	2,648	2,040	2,700	2,920
13.64	Discission of Secondary Membrane After Cataract	5,448	695	500	640	877
20.01	Myringotomy with Insertion of Tube	11,542	1,564	1,068	1,403	1,867
37.22	Left Heart Cardiac Catheterization	11,552	5,600	4,257	5,174	6,572
42.92	Dilation of Esophagus	6,741	1,228	818	1,091	1,437
45.13	Other Endoscopy of Small Intestine	11,814	1,026	705	852	1,146
45.16	EGD† w/Closed Biopsy	33,028	1,330	899	1,142	1,564
45.23	Colonoscopy	39,484	1,108	817	1,024	1,282
45.24	Flexible Sigmoidoscopy	16,730	519	241	373	672
45.25	Endoscopic Biopsy of Large Intestine	16,996	1,400	931	1,289	1,698
45.42	Endoscopic Polypectomy of Large Intestine	30,766	1,482	1,056	1,350	1,795
51.23	Laparoscopic Cholecystectomy	8,904	5,942	4,524	5,883	7,121
57.32	Other Cystoscopy	11,222	1,302	660	1,002	1,656
80.6	Excision of Semilunar Cartilage of Knee	13,473	3,800	2,702	3,465	4,513
85.21	Local Excision of Lesion of Breast	9,297	2,679	1,684	2,334	3,202
86.3	Local Excision/Destr. of Lesion or Tissue of Skin	20,687	892	173	393	1,279

Note: Charges may reflect charges for other ambulatory procedures performed during the same surgical episode. Refer to page 333 for an explanation of percentiles.

† Esophagogastroduodenoscopy

Source: Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

APPENDIX 2

Table 26. Age and sex distribution of persons undergoing selected ambulatory procedures, Wisconsin GMS hospitals and FASCs, 2000

ICD-9-CM		Age Groupings				Sex	
<u>Code</u>	<u>Procedure</u>	<u>0-14</u>	<u>15-44</u>	<u>45-64</u>	<u>65+</u>	<u>Male</u>	<u>Female</u>
03.91	Injection of Spinal Canal for Analgesia	0.0%	28.9%	34.9%	36.2%	43.8%	56.2%
03.92	Injection of other Agent into Spinal Canal	0.1	29.5	34.4	35.9	44.4	55.6
04.43	Carpal Tunnel Release	0.0	35.7	40.0	24.3	37.7	62.3
13.41	Phacoemulsification and Aspiration of Cataract	0.1	1.4	14.1	84.4	36.4	63.6
13.59	Other Extracapsular Extraction of Lens	0.2	1.8	15.9	82.1	37.6	62.4
13.64	Discission of Secondary Memb. After Cataract	0.2	2.3	13.4	84.1	31.5	68.5
20.01	Myringotomy with Insertion of Tube	93.4	3.0	1.7	2.0	58.5	41.5
37.22	Left Heart Cardiac Catheterization	0.0	8.7	47.9	43.4	60.9	39.1
42.92	Dilation of Esophagus	0.8	18.7	34.3	46.2	51.3	48.7
45.13	Other Endoscopy of Small Intestine	1.0	32.0	34.3	32.7	40.5	59.5
45.16	EGD† w/Closed Biopsy	2.6	28.0	36.7	32.8	45.1	54.9
45.23	Colonoscopy	0.1	15.3	46.8	37.8	41.1	58.9
45.24	Flexible Sigmoidoscopy	0.1	12.5	53.2	34.2	48.2	51.8
45.25	Endoscopic Biopsy of Large Intestine	1.8	29.1	38.9	30.2	42.2	57.8
45.42	Endoscopic Polypectomy of Large Intestine	0.1	7.5	46.8	45.7	54.7	45.3
51.23	Laparoscopic Cholecystectomy	0.3	49.6	35.2	14.9	20.7	79.3
57.32	Other Cystoscopy	1.6	16.9	28.5	53.0	57.6	42.4
80.6	Excision of Semilunar Cartilage of Knee	0.8	37.9	47.0	14.3	59.5	40.5
85.21	Local Excision of Lesion of Breast	0.2	34.1	41.5	24.3	3.3	96.7
86.3	Local Excision/Destr. of Lesion/Tissue of Skin	7.6	33.5	29.5	29.4	47.3	52.7

Note: Rows may not total 100% due to rounding.

† Esophagogastroduodenoscopy

Source: Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 27. Expected primary pay source distribution of persons undergoing selected ambulatory procedures, Wisconsin GMS hospitals and FASCs, 2000

ICD-9-CM				Other	Commercial		
Code	Procedure	T18	T19	Gov't	Insurance	Self-Pay	Unknown
03.91	Injection of Spinal Canal for Analgesia	36.3%	3.0%	0.8%	58.7%	1.1%	0.0%
03.92	Injection of other Agent into Spinal Canal	36.3	2.7	0.5	58.0	0.8	1.7
04.43	Carpal Tunnel Release	24.5	3.5	0.3	70.4	0.7	0.6
13.41	Phacoemulsification and Aspiration of Cataract	81.4	0.9	0.2	17.0	0.5	0.0
13.59	Other Extracapsular Extraction of Lens	76.9	1.0	0.4	21.0	0.6	0.1
13.64	Discission of Secondary Membrane After Cataract	78.7	1.0	0.2	19.4	0.3	0.2
20.01	Myringotomy with Insertion of Tube	1.9	16.4	0.4	79.3	0.6	1.4
37.22	Left Heart Cardiac Catheterization	42.8	2.4	0.7	53.0	1.1	0.0
42.92	Dilation of Esophagus	47.1	2.1	0.4	49.3	0.8	0.2
45.13	Other Endoscopy of Small Intestine	34.5	4.4	0.7	58.5	1.3	0.6
45.16	Esophagogastroduodenoscopy (EGD) w/Closed Biopsy	33.6	4.3	0.7	59.9	1.0	0.5
45.23	Colonoscopy	37.2	1.6	0.5	59.7	0.7	0.4
45.24	Flexible Sigmoidoscopy	33.2	1.6	0.5	63.7	0.8	0.1
45.25	Endoscopic Biopsy of Large Intestine	30.0	2.5	0.6	65.3	1.0	0.7
45.42	Endoscopic Polypectomy of Large Intestine	43.9	1.3	0.4	53.6	0.5	0.3
51.23	Laparoscopic Cholecystectomy	15.6	5.8	0.7	75.5	1.9	0.5
57.32	Other Cystoscopy	51.6	3.2	0.7	43.5	0.7	0.2
80.6	Excision of Semilunar Cartilage of Knee	14.0	1.8	0.5	81.9	1.0	0.9
85.21	Local Excision of Lesion of Breast	24.4	3.2	1.0	69.0	1.4	0.9
86.3	Local Excision/Destruction of Lesion or Tissue of Skin	28.7	3.0	0.6	65.5	1.4	0.9

Note: Rows may not total 100% due to rounding.

T18 refers to Medicare. T19 refers to Medical Assistance.

Source: Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

APPENDIX 2

Table 28. Most frequently performed ambulatory surgical procedures, Wisconsin GMS hospitals and FASCs, 2000

ICD-9-CM Code	Procedure	Number of Cases	Average Charge	Total Charges
45.23	Colonoscopy	39,558	\$1,108	\$43,832,024
45.16	Esophagogastroduodenoscopy (EGD) w/Closed Biopsy	33,060	1,330	43,957,647
45.42	Endoscopic Polypectomy of Large Intestine	30,797	1,482	45,655,622
13.41	Phacoemulsification and Aspiration of Cataract	27,118	3,310	89,758,080
03.92	Injection of other Agent into Spinal Canal	20,885	609	12,719,626
86.3	Local Excision/Destruction of Lesion or Tissue of Skin	20,720	893	18,494,264
45.25	Endoscopic Biopsy of Large Intestine	17,022	1,400	23,833,421
45.24	Flexible Sigmoidoscopy	16,740	519	8,684,304
03.91	Injection of Spinal Canal for Analgesia	15,844	649	10,281,250
80.6	Excision of Semilunar Cartilage of Knee	13,517	3,800	51,365,227
13.59	Other Extracapsular Extraction of Lens	12,503	2,653	33,173,329
45.13	Other Endoscopy of Small Intestine	11,823	1,026	12,127,473
20.01	Myringotomy with Insertion of Tube	11,570	1,564	18,097,316
37.22	Left Heart Cardiac Catheterization	11,552	5,600	64,687,524
57.32	Other Cystoscopy	11,222	1,302	14,609,201
04.43	Carpal Tunnel Release	10,559	1,890	19,955,729
85.21	Local Excision of Lesion of Breast	9,324	2,675	24,940,511
51.23	Laparoscopic Cholecystectomy	8,921	5,939	52,985,656
42.92	Dilation of Esophagus	6,744	1,229	8,286,908
28.3	Tonsillectomy with Adenoidectomy	6,255	2,529	15,820,901
13.64	Discission of Secondary Membrane After Cataract	5,742	715	4,107,384
45.43	Endoscopic Destruction of Lesion/Tissue of Large Intestine	5,531	1,155	6,388,048
85.11	Closed (Percutaneous)(Needle) Breast Biopsy	4,534	1,466	6,647,161
04.81	Injection of Anesthetic into Peripheral Nerve for Analgesia	4,382	912	3,996,314
48.36	Endoscopic Polypectomy of Rectum	3,999	1,362	5,445,012
66.29	Bilateral Endoscopic Destr./Occlusion of Fallopian Tubes	3,659	3,338	12,212,214
81.92	Injection of Therapeutic Substance into Joint or Ligament	3,550	524	1,860,594
28.2	Tonsillectomy without Adenoidectomy	3,489	2,660	9,281,212
69.09	Other Dilation and Curettage (D&C)	3,433	3,010	10,334,076
77.51	Bunionectomy with Osteotomy of the First Metatarsal	3,062	3,722	11,397,327
53.04	Repair of Indirect Inguinal Hernia w/Graft or Prosthesis	3,054	3,875	11,834,490
86.24	Chemosurgery of Skin	3,050	481	1,465,822
81.83	Other Repair of Shoulder	2,946	5,417	15,959,637
53.00	Unilateral Repair of Inguinal Hernia	2,781	2,966	8,247,270
82.21	Excision of Lesion of Tendon Sheath of Hand	2,654	2,144	5,691,267
83.63	Rotator Cuff Repair	2,621	6,148	16,114,095
53.49	Other Umbilical Herniorrhaphy	2,612	2,793	7,294,587
80.86	Other Local Excision or Destruction of Knee Lesion	2,569	3,586	9,211,370
57.49	Oth. Transurethral Excision/Destr. Lesion/Tissue of Bladder	2,562	3,102	7,946,686
53.03	Repair of Direct Inguinal Hernia with Graft or Prosthesis	2,444	3,900	9,532,489

Note: Charges may reflect charges for other procedures performed during the same surgical episode.

Source: Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 29. Most expensive ambulatory surgical procedures (with at least 5 cases reported), Wisconsin GMS hospitals and FASCs, 2000

ICD-9-CM Code	Procedure	Number of Cases	Average Charge	Total Charges
20.98	Implant/Replace Cochlear Prosthetic Device, Multiple Channel	6	\$62,261	\$373,563
37.94	Implant/Repl. Auto. Cardioverter/Defibrillator, Total System (AICD)	66	48,675	3,212,578
20.96	Implant/Replace Cochlear Prosthetic Device Not Otherwise Specified	27	36,722	991,489
37.96	Implantation Auto. Cardioverter/Defibrillator Pulse Generator Only	16	33,455	535,275
37.98	Replace Automatic Cardioverter/Defibrillator Pulse Generator Only	184	30,623	5,634,649
36.05	Multiple Vessel PTCA† w/wo/Mention of Thrombolytic Agent	134	22,969	3,077,842
04.92	Implantation or Replacement of Peripheral Neurostimulator	90	21,666	1,949,924
02.93	Implantation of Intracranial Neurostimulator	11	20,243	222,676
37.83	Initial Insertion of Pacemaker with Dual-Chamber Device	167	19,709	3,291,391
37.99	Other Operations on Heart and Pericardium	20	18,296	365,910
37.34	Catheter Ablation of Lesion or Tissue of Heart	595	17,667	10,511,631
36.06	Insertion of Coronary Artery Stent(s)	86	16,782	1,443,229
36.01	Single Vessel PTCA† wo/Mention of Thrombolytic Agent	526	16,622	8,742,960
36.02	1 Vessel PTCA† or Coronary Atherectomy w/Thrombolytic Agent	30	16,104	483,128
37.80	Insertion or Pacemaker, Initial or Replacement, Type not Specified	7	15,436	108,054
60.99	Other Operations on Prostate	16	15,344	245,512
37.72	Initial Insertion of Transvenous Leads into Atrium and Ventricle	63	15,196	957,373
92.27	Implantation or Insertion of Radioactive Element	372	15,139	5,631,887
37.81	Initial Insert. 1-Chamber Device not Specified as Rate Responsive	30	14,925	447,751
37.82	Initial Insertion of a Single-Chamber Device, Rate Responsive	24	14,433	346,392

Note: Charges may reflect charges for other procedures performed during the same surgical episode

†PTCA: Percutaneous Transluminal Coronary Angioplasty

Source: Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 30. Highest total charge-generating ambulatory surgical procedures, Wisconsin hospitals and FASCs, 2000

ICD-9-CM Code	Procedure	Number of Cases	Average Charge	Total Charges
13.41	Phacoemulsification and Aspiration of Cataract	27,118	\$3,310	\$89,758,080
37.22	Left Heart Cardiac Catheterization	11,552	5,600	64,687,524
51.23	Laparoscopic Cholecystectomy	8,921	5,939	52,985,656
80.6	Excision of Semilunar Cartilage of Knee	13,517	3,800	51,365,227
45.42	Endoscopic Polypectomy of Large Intestine	30,797	1,482	45,655,622
45.16	Esophagogastroduodenoscopy (EGD) w/Closed Biopsy	33,060	1,330	43,957,647
45.23	Colonoscopy	39,558	1,108	43,832,024
13.59	Other Extracapsular Extraction of Lens	12,503	2,653	33,173,329
85.21	Local Excision of Lesion of Breast	9,324	2,675	24,940,511
45.25	Endoscopic Biopsy of Large Intestine	17,022	1,400	23,833,421
04.43	Carpal Tunnel Release	10,559	1,890	19,955,729
86.3	Local Excision/Destruction of Lesion or Tissue of Skin	20,720	893	18,494,264
20.01	Myringotomy with Insertion of Tube	11,570	1,564	18,097,316
81.45	Other Repair of the Cruciate Ligaments	2,163	7,951	17,197,387
39.50	Angioplasty or Arterectomy of Non-Coronary Vessel	2,048	8,093	16,574,644
83.63	Rotator Cuff Repair	2,621	6,148	16,114,095
81.83	Other Repair of Shoulder	2,946	5,417	15,959,637
28.3	Tonsillectomy with Adenoidectomy	6,255	2,529	15,820,901
37.23	Combined Right/Left Heart Cardiac Catheterization	2,368	6,599	15,625,876
57.32	Other Cystoscopy	11,222	1,302	14,609,201

Note: Charges may reflect charges for other procedures performed during the same surgical episode

Source: Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 31. Ambulatory surgical procedures, by major category, Wisconsin GMS hospitals and FASCs, 2000

<u>Category of Surgical Procedure</u>	<u>Number of Cases</u>	<u>Total Charges</u>
Cardiovascular	28,858	\$184,600,564
CPT Codes Not Converted	222	377,122
Diagnostic/Therapeutic	8,851	27,037,776
Digestive	212,425	369,584,704
Ear	15,568	31,900,246
Endocrine	1,660	4,318,095
Eye	61,901	170,744,541
Female Genital	25,822	82,586,005
Hemic/Lymphatic	3,209	8,915,431
Integumentary	59,445	103,752,149
Male Genital	8,880	20,458,414
Musculoskeletal	80,840	293,067,928
Nervous	60,124	68,313,559
Nose/Mouth/Pharynx	27,860	76,457,254
Obstetrical	4,354	2,261,563
Respiratory	7,670	17,437,423
Urinary	<u>24,322</u>	<u>54,653,530</u>
Statewide Totals	632,011	\$1,516,466,304

*Source: Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing,
Department of Health and Family Services.*

Appendix 3: TECHNICAL NOTES

TECHNICAL NOTE: METHODOLOGY USED TO RISK-ADJUST DATA

In recent years a number of methods have been developed to measure variations in charges and lengths of stay resulting from patient risk differences. BHI uses computer software to implement a Coded Disease Staging approach (MEDSTAT Disease Staging IV). Coded Disease Staging relies upon information obtained from the uniform billing forms and so is readily applied using data already collected by BHI.

The process uses ICD-9-CM diagnosis and procedure codes, sex, age, admission source, and discharge status for each patient and makes a comparison to data developed from a nationwide sample of patients in the same DRG. Each patient is then assigned a number, called the Resource Demand Index, which defines relative resource use. Resource use refers to how much care a patient requires (i.e., length of stay, professional attention, drugs and supplies, tests, etc.). Those patients whose factors place them among the patients with average resource use in the national database are assigned a value of 100 and are considered to be of average risk.

Patients whose factors place them among the more resource-intensive patients in the national database are assigned progressively higher values representing the additional cost of treatment. For example, treatment for a patient with a value of 120 is expected to require 20 percent more resources (as reflected in charges), based on the pattern for patients in the national sample with similar risks. Less resource-intensive patients are assigned values progressively lower than 100.

The effects of severity variation may be removed from each patient's charges by using this index to adjust actual charges to the level incurred by a patient of "average" risk (i.e., one with an index of 100). This is done by dividing the patient's actual charges by the assigned index and multiplying by 100. The resulting value represents the amount that would have been charged had the patient been of average risk.

If the actual average charge for a group of patients is higher than their risk-adjusted

average charge, it means that the patients in this group had a *greater* than average severity of illness.

Comparison of these values will point out variations due to factors other than differences in patient risk. Groups of patients, such as those in different hospitals, may be compared as if they were all like the average patient in their DRG.

The DRG-specific risk-adjusted charge data were developed in this manner. BHI risk-adjusted each charge value in the BHI database using the above process, making all patients look like an average patient. These values were then averaged for each hospital, analysis area, inpatient volume group, and GMS hospitals as a single group.

HCFA DIAGNOSTIC CATEGORIES - REHABILITATION SERVICES

Applicable ICD-9-CM* Diagnostic Codes

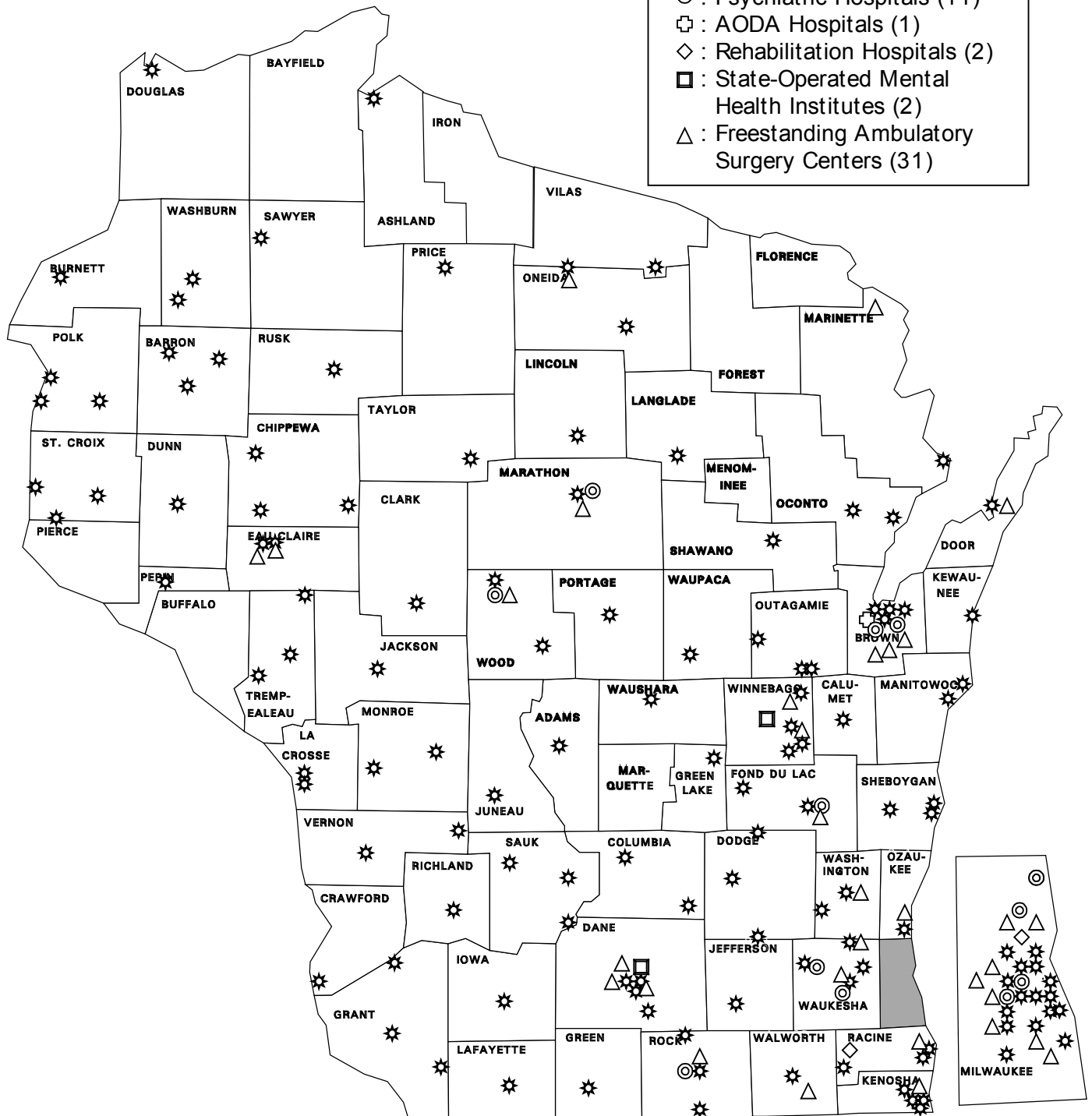
STROKE	BRAIN DAMAGE OR INJURY	ARTHRITIS	OTHER NEUROLOGICAL DISEASE	HIP FRACTURE	MISCELLANEOUS REHABILITATION		
342	046.2	714	045.9	719.70	038.9	556	805.4
342.0	191.3	714.0	138	719.75	170.2	569.83	805.8
342.1	192.1	714.30	250.60	733.42	170.4	571	812
342.9	225.2	714.3	310.1	808.8	174.9	593.4	812.20
431	310.2	715.09	332	820	185	593.7	812.2
432.1	310.8	715.26	332.0	820.2	188.6	594.1	814
434	323.9	715.35	334.3	820.20	200.5	598.9	818.0
434.0	331.3	715.9	334.9	820.21	202.8	599.0	820.09
434.1	331.4	715.90	335.20	820.8	202.81	682.6	821.00
434.9	331.9	715.91	337.9	821	224.2	686.9	822
435.9	348.1	715.95	340	905.3	250	707	823.02
436	352.9	715.96	341.9		250.01	707.0	823.80
437.1	768.5	715.99	345.9		250.5	709.9	823.82
437.3	484.5	716.95	355.3		255.4	710.3	825.25
438	800.24	720	355.9		263.9	718.35	827
784.3	800.4	721.0	356.1		296.99	719.45	829
** V57.89	803.1	721.1	356.9		298.1	719.46	839.03
	851.01	721.9	357		300.8	722.1	840.4
	851.04	721.90	357.0		306.4	722.73	846.9
	851.85	729.0	357.2		307.81	723.1	847
	852.2	730.20	357.7		310.9	724.4	847.1
	852.20	V43.6	357.9		318.1	724.5	847.2
	852.25		359		344.8	727.2	863
	852.45		359.9		344.9	728.2	867
	854.0		723.0		346	728.89	905.1
	854.00		724.02		346.2	733.1	805.4
	854		728.9		362.1	736.7	907
	854.03		729.1		368.46	755.30	914.3
	854.04		729.2		394.1	755.8	924.01
	854.05		747.6		401.9	756.11	924.8
	854.06		780.3		425.3	780.7	936
	854.14		781.0		427.31	781.2	939.3
	854.16		781.3		427.5	783.4	991.6
	873		781.9		428	784.4	996.39
	907.0		905.0		429.2	785	998.5
			969.7		440.9	789	V16.8
					441.2	801	V45.89
					441.4	803	V48.4
					442.81	803.00	V57.81
					448.0	805.02	V57.9
* International Classification of Diseases-9th Edition-Clinical Modifications					451.2	805.07	V58.4
** Refer to secondary diagnoses to identify underlying disease.					496	805.2	

Appendix 4: SELECTED WISCONSIN MAPS

Location of Wisconsin Hospitals and Freestanding Ambulatory Surgery Centers, 2001

Key:

- ☆ : GMS Hospitals (127)
- ⊙ : Psychiatric Hospitals (11)
- ⊞ : AODA Hospitals (1)
- ◇ : Rehabilitation Hospitals (2)
- ▣ : State-Operated Mental Health Institutes (2)
- △ : Freestanding Ambulatory Surgery Centers (31)



Wisconsin Bureau of Health Information

Hospital Inpatient Analysis Areas



Wisconsin Division of Health Care Financing
Bureau of Health Information

Wisconsin Three-Digit Zip Code Areas

